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**DECLARATION AND POWER OF** ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)

Attorney Docket Number 42P17989X First Named Inventor John B. Halbert COMPLETE IF KNOWN Application Number 10/749,690 Filing Date December 30, 2003 Art Unit **Examiner Name** 

Declaration Submitted with InItIal Filina

Declaration Submitted after Initial Filing (aurcharge (37 CFR 1.16(e)) required)

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR MULTIPLE ROW CAC	HES PER BANK
	·
(Title of the Invention)	
e specification of which	
☐ Is attached hereto.	
OR	
🔀 was filed on (if applicable):	
or 12/30/2003 as United States Application Number PCT International Application Number	10/749,690
and was amended on	(if applicable)
ereby state that I have reviewed and understand the contents of the above	/e-identified specification

including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an Inventor's certificate Issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Docket No. 42P17989X

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior	Foreign Application Number(s)	Co	untry	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
						☐Yes ☐No
		**				Yes No
ļ		ł				☐Yes ☐No
· f		ļ		1		☐Yes ☐No
L					🗆	☐Yes ☐No
	nected herewith.	Custome	r Number	08791	Г Соггевропо	dence address below
чагты	Blakely, Sokoloff,	Faykor & Zafin	an LLP			
Address	12400 Wilshire Bo	ulevard, 7th Flo	or			
City	Los Angeles		State	California	Zip Code	90025
Country		-	Telephone	(408) 720-8300	Fax	(408) 720-8383
nade on in vith the kn mprisonme	itormation and bel owledge that willfi	ief are believ Il false state r 18 U.S.C. 1	red to be tra ments and 1001 and tr	my own knowledge ue; and further that the the like so made an at such willful false on.	these statemer e nunishable h	nts were made
	SOLE OR FIRST	INVENTOR:	☐ A pe	tition has been filed	for this unders	igned inventor
uli Name:		) /Fire vell	n 54	John B. Halbert	· · · · · · · · · · · · · · · · · · ·	
ivent <del>o</del> r's S	ignature		die [i gry], F	andly Name (or Surnam Date	e), and Şuffix [if a	04 04
esidence	Beaverton, Orego	• • •				,

Docket No. 42P17989X

Mailing Address

Citizenship USA

(Country)

(City , State, Country)

15045 Emerald Court

Beaverton, Oregon 97007 USA

NAME OF SECOND INVENTOR: A petition has be	een filed for this undersigned inventor
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Hillsboro, Oregon 97123 USA	
	₫ ;
NAME OF THIRD INVENTOR:	en filed for this undersigned inventor
Full Name: Ku	ljit S. Bains
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(City, State; Country)	(Country)
Mailing Address 12590 SW Bowmont Street	
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NAME OF FIFTH INVENTOR:	en filed for this undersigned inventor
Full Name:	
	Name (or Surname), and Suffix [if any])
Inventor's Signature	Date
Residence	Citizenship
(City , State, Country) Mailing Address	(Country)
Docket No. 47P17989X	



#### Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Alford, Reg. No. 37,784; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 48,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos. Reg. No. 37,813; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,821; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Waiter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Laut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S, Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 48,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-52,107; Marina Portnova, Reg. No. 45,750; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zendt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; C. Teresa Wong, Reg. No. 48,042; and Norman Zefman, Reg. No. 26,250; my patent attorneys, and Brant E. Vecchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Witehire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeler, Reg. No. 51,003; Erik M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dannis A. Nicholls, Reg. No. 42,036; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,998; Michael D. Pilmier, Reg. No. 43,004; Michael Prokech, Reg. No. 43,021; Kevin A. Reif, Reg. No. 35,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,758; Staven P. Skabrat, Reg. No. 38,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travts, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



### Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a petent application has a duty of cender and good falth in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filling or prosecution of a patent application within the meaning of this section are:
  - (1) Each Inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor,
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filling date of the prior application and the national or PCT international filing date of the continuation-in-part application.

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

OR

Declaration
Submitted after Initial
Filling (surcharge
(37 CFR 1.16(e))
regulred)

Attorney Docket Numb	ber 42P17989X	
First Named Inventor	John B. Halbert	
	COMPLETE IF KNOWN	
Application Number	10/749,690	
Filing Date	December 30, 2003	
Art Unit		
Examiner Name		-

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR MULTIPLE ROW CAC	HES PER BANK
(Title of the Invention)	
ne specification of which is attached hereto.	
OR  was filed on (if applicable):  12/30/2003 as United States Application Number	
or 12/30/2003 as United States Application Number PCT International Application Number and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed Invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose Information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Docket No. 42P17989X

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Pr	ior Foreign Application(s):				
	Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
	·				Yes No
ı					☐Yes ☐No
ı					Yes No
					☐Yes ☐No
- 1					

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademerk Office connected herewith.

Direct all co	rrespondence to:	Customer Num	ber	08791	or $\square$	Corresponde	nce address below
Name	Blakely, Sokoloff	Taylor & Zafman LL	P	<u></u>		•••••	
Address		coulevard, 7th Floor					
City	Los Angeles		State	California	-	Zip Code	90025
Country		Telep	hone	(408) 720-8300		Fax	(408) 720-8383

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE	OR FIRST INVENTOR:	☐ A petition has been filed for this undersigned inventor
Full Name:		John B. Halbert
	(First, Middl	le [If any], Family Name (or Surname), and Sufflx (if any])
Inventor's Signatu	re	Date
Residence Bo	averton, Oregon USA	Citizenship USA
	(City, State, Coun	(Country)
Mailing Address	15045 Emerald Court	
	Beaverton, Oregon 97007 U	JSA

Docket No. 42P17989X

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	(First, Middle [if any], Fan		and Suffic fit and
Inventor's Signatu	irá	D-4-	uu sujjix [ij any])
4.9/19/19		Date	
Residence Hi	lisboro, Oregon USA	Citizenship	USA
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Mailing Address	4177 SE Hemlock		
	Hillsboro, Oregon 97123 USA		
IAME OF THIRD	INVENTOR:	been filed for this und	dersigned inventor
Full Name:	7	Z-1144 G TO 1	
	(First, Middle [if any], Fam	Culjit S. Bains	nd Suffic (if amil)
Inventor's Signatui		Date	6-10-04
			82 (0
Residence Oly	mpia, Washington USA	Citizenship	India
	(City, State, Country)	<u> </u>	(Country)
Mailing Address	9146 52nd Lane NE		
	Olympia, Washington 98516 USA	peen filed for this und	dersigned inventor
IAME OF FOURT	Olympia, Washington 98516 USA  TH INVENTOR:	peen filed for this und	dersigned inventor
NAME OF FOURT	Olympia, Washington 98516 USA  TH INVENTOR:	ris B. Freeman	
NAME OF FOURT	Olympia, Washington 98516 USA  TH INVENTOR: A petition has to the control of the	ris B. Freeman ly Name (or Surname), an	
NAME OF FOURT	Olympia, Washington 98516 USA  H INVENTOR: A petition has t  Ch  (First, Middle [if any], Fami	ris B. Freeman ly Name (or Surname), an	
NAME OF FOURT Full Name:	Olympia, Washington 98516 USA  TH INVENTOR: A petition has to the control of the	ris B. Freeman ly Name (or Surname), an	nd Suffix (If any)) USA
NAME OF FOURT Full Name:  nventor's Signatur Residence Port	Olympia, Washington 98516 USA  H INVENTOR: A petition has t  Ch  (First, Middle [if any], Famile	ris B. Freeman ly Name (or Surname), an Date	nd Suffix [If any])
NAME OF FOURT  oull Name:  nventor's Signatur  desidence Port	Olympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date	nd Suffix (If any)) USA
NAME OF FOURT Full Name:  nventor's Signatur Residence Port	Olympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date	nd Suffix (If any)) USA
NAME OF FOURT Full Name:	Olympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date	nd Suffix (If any)) USA
NAME OF FOURT  Full Name:  Inventor's Signature Residence Port  Mailing Address	Clympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date Citizenship	ud Suffix [if any])  USA  (Country)
NAME OF FOURT Full Name:  nventor's Signatur Residence Port	Clympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date	ud Suffix [if any])  USA  (Country)
NAME OF FOURT Full Name:  Inventor's Signature Residence Port Mailing Address	Clympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman ly Name (or Surname), an Date Citizenship	ud Suffix [if any])  USA  (Country)
NAME OF FOURT  Full Name:  Inventor's Signature Residence Port  Mailing Address	Clympia, Washington 98516 USA  TH INVENTOR: A petition has to the Character of Char	ris B. Freeman  ly Name (or Surname), on  Date  Citizenship  een filed for this und	USA (Country) ersigned inventor
NAME OF FOURT  Full Name:  Inventor's Signature  Residence Port  Mailing Address  IAME OF FIFTH I	Olympia, Washington 98516 USA  CH INVENTOR: A petition has to the Character of Character of Character of Character of City, State, Country)  12590 SW Bowmont Street  Portland, Oregon 97225 USA  NVENTOR: A petition has be Character of Chara	ris B. Freeman  Ily Name (or Surname), an  Date  Citizenship  een filed for this und	USA (Country) ersigned inventor
NAME OF FOURT Full Name:  Inventor's Signature Residence Port Mailing Address	Olympia, Washington 98516 USA  CH INVENTOR: A petition has to the Character of Character of Character of Character of City, State, Country)  12590 SW Bowmont Street  Portland, Oregon 97225 USA  NVENTOR: A petition has be Character of Chara	ris B. Freeman  ly Name (or Surname), on  Date  Citizenship  een filed for this und	USA (Country) ersigned inventor
NAME OF FOURT Full Name:  nventor's Signature Address  IAME OF FIFTH I	Olympia, Washington 98516 USA  CH INVENTOR: A petition has to the Character of Character of Character of Character of City, State, Country)  12590 SW Bowmont Street  Portland, Oregon 97225 USA  NVENTOR: A petition has be Character of Chara	ris B. Freeman  ily Name (or Surname), on  Date  Citizenship  een filed for this und  by Name (or Surname), and  Date	USA (Country) ersigned inventor
NAME OF FOURT  Full Name:  Inventor's Signature  Residence Port  Mailing Address  IAME OF FIFTH I	Olympia, Washington 98516 USA  CH INVENTOR: A petition has to the Character of Character of Character of Character of City, State, Country)  12590 SW Bowmont Street  Portland, Oregon 97225 USA  NVENTOR: A petition has be Character of Chara	ris B. Freeman  Ily Name (or Surname), an  Date  Citizenship  een filed for this und	USA (Country) ersigned inventor



#### Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN. a firm including: William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutta. Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,084; Willimore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Laut, Reg. No. 47,736; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Maille, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-52,107; Marina Portnova, Reg. No. 45,750; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Keviri G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 48,322; Thomas C. Webster, Reg. No. 46,154; C. Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchla, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50.610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Fastz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,110; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 60,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeler, Reg. No. 51,003; Erik M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,896; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,998; Michael D. Plimier, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Sealey, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,258; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



#### Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public Interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim is a patent was cited by the Office or submitted to the Office in the manner prescribed by \$\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or exemine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prime facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prime fedie case of unpatentability is established when the information compets a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is sesociated with the inventor, with the assignae or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, egent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-pert application, the duty under this section includes the duty to disclose to the Office all Information known to the person to be material to patentability, as defined in paragraph (b) of this section, which become available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.